

RESOURCE ALLOCATION FOR VOICE PROCESSING APPLICATIONS

ABSTRACT

30 A voice processing system is provided in which sets of engines
running on a plurality of servers are configured differently from one
another. The sets of engines may be configured to achieve different
trade-offs between performance of a task and resources required to
perform the task. In the voice processing system, a task routing
35 server is provided that assigns different sets of sub-tasks to
different sets of task engines. The number of engines used to perform
a task and the number of engines in each set are adjusted. By
adjusting the parameters settings for the set of engines based on the
type of application, the particular requirements of the application, or
40 the nature and importance of the subtasks, for example, advantages such
as improvement of resource utilization and the hardware and software
costs reduction may be obtained.